



International Symposium September 9 - 11, 2024

Venue:

Dorint Herrenkrug Parkhotel Magdeburg
Herrenkrug 3
39114 Magdeburg

09.09.2024

13:00 - 13:50 Light refreshments
13:50 - 14:00 Welcome and Introduction

25 minutes presentation
10 minutes discussion

14:00 - 15:45 **Session 1.** Chair: **Eckart Gundelfinger** (LIN, Magdeburg)
Robin Hiesinger (FU Berlin)
Autophagy in synapse formation and brain wiring
Natalia Kononenko (University of Cologne)
Spatial Regulation of Neuronal Metabolism by Autophagy
Sandra Soukup (University of Bordeaux)
Untangling synaptic autophagy pathways to improve brain health

15:45 - 16:15 Coffee break + Postersession

16:15 - 18:00 **Session 2.** Chair: **Noam Ziv** (Technion IIT, Haifa)
Tassula Proikas-Cezanne (University of Tübingen)
Human WIPI β -propeller function in autophagy and neurodegeneration
Andrea K. Stavoe (McGovern Medical School, Houston)
Differential Regulation of Neuronal Autophagy by WIPI2/ATG-18 Phosphorylation
Ivan Dikic (Goethe University Frankfurt am Main)
ER-phagy prevents development of neuropathologies

18:00 - 19:30 Postersession

19:30 - 21:00 Dinner

21:00 - 22:00 Postersession

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- 09:00 - 10:45 **Session 3.** Chair: **Britta Eickholt** (Charité, Berlin)
Reinhard Jahn (MPI, Göttingen)
Crosstalk between synaptic vesicle recycling and autophagocytosis?
Vassiliki Nikolettou (University of Lausanne)
Exploring the diverse substrates of brain autophagic vesicles
Nils Gassen (University of Bonn)
Neurohomeostasis under Stress: the Crosstalk of Systemic Metabolism and Autophagy in Stress-Related Diseases
- 10:45 - 11:15 Coffee break
- 11:15 - 13:00 **Session 4.** Chair: **Christian Rosenmund** (Charité, Berlin)
Marina Mikhaylova (Humboldt University, Berlin)
Synaptic control of secretory organelle localisation
Volker Haucke (FMP, Berlin)
Control of synaptic function by the autophagy/endolysosome system
Christian Hübner (University of Jena)
Destressing the ER by ER-phagy
- 13:00 - 14:30 Lunch break
- 14:30 - 16:15 **Session 5.** Chair: **Marijn Kuijpers** (Radboud University, Nijmegen)
Silvio Rizzoli (University Medical Center, Göttingen)
Recycling dynamics of the neuro-glia extracellular matrix
Paul Saftig (Christian-Albrecht-University, Kiel)
Proteolysis in the endocytic pathway and at the cell surface are important regulators of neurological functions
Zu-Hang Sheng (NIH, Bethesda)
Energy matters: Reprogramming presynaptic metabolism for the maintenance of synaptic transmission
- 16:15 - 16:45 Coffee break + Postersession
- 16:45 - 18:00 **Session 6.** Chair: **Anna Karpova** (LIN, Magdeburg)
Stephan Sigrist (FU, Berlin)
Cell autonomous and non-autonomous coupling of presynaptic plasticity and autophagy
- Short talks**
Katarzyna Grochowska (LIN, Magdeburg/ ZMNH, Hamburg)

Chaperone-mediated autophagy in dendrites utilizes lysosomal exocytosis for protein disposal

Alberto Catanese (University of Ulm)

Autophagy defects and synaptic impairments are coexisting pathological features linked to C9orf72-ALS

18:00 - 19:30 Postersession

19:30 - 21:00 Dinner

21:00 Jazz Concert

11.09.2024

09:00 - 10:45 **Session 7.** Chair: **Marta Maglione** (FU, Berlin)

Patrik Verstreken (VIB-KU, Leuven)

Soma-centered control of synaptic autophagy

Ralph Nixon (NYU Grossman School of Medicine, NY)

Protein biosynthesis and turnover in synapses in vivo

Clarissa Waites (Columbia University)

Mechanisms of ESCRT pathway transport and recruitment to synapses

10:45 - 11:15 Coffee break

11:15 - 13:00 **Session 8.** Chair: **Anne Albrecht** (OVGU, Magdeburg)

Janine Kirstein (University of Jena)

Synaptic proteostasis challenges with aging

Sandra Maday (University of Pennsylvania)

Lysosomal pathways in synaptic signaling between neurons and astrocytes

Dominic Winter (University of Bonn)

One lysosome to rule them all? A proteomic view on lysosomal heterogeneity.

13:00 Lunch and departure